

NAME _____

PERIOD _____ DATE _____

QUADRATIC FUNCTIONS

WS 1 #1-13

Classify each function as linear or quadratic.

1) $f(x) = 2x + 7$ _____

2) $f(x) = 2x^2 + 7$ _____

3) $f(x) = x^2 + 2x + 7$ _____

4) $f(x) = 6x^2 + 1$ _____

5) $f(x) = 2x$ _____

6) $f(x) = (a - x)^2$ _____

For each function, complete the table of values.

7) $f(x) = x^2 + 1$

x	-5	-4	-3	-2	-1	0	1	2	3	4	5
f(x)											

8) $y = x^2 + 2x + 1$

x	-5	-4	-3	-2	-1	0	1	2	3	4	5
y											

9) $f(x) = x^2 - 5x + 6$

x	-5	-4	-3	-2	-1	0	1	2	3	4	5
f(x)											

The equation of a parabola and a point through which the graph of the parabola passes are given. For each equation, find the value of the specified coefficient.

10) $y = x^2 + bx - 9$ $(-2, -5)$ $b =$ _____

11) $y = 2x^2 + 3x + c$ $(1, 0)$ $c =$ _____

12) $y = ax^2 + 3x - 2$ $(2, 24)$ $a =$ _____

13) $y = x^2 + bx + 3$ $(-1, 8)$ $b =$ _____